### 510(k) SUMMARY

### SONICATOR® PLUS 920, ME 920

Submitter's Name: Mettler Electronics Corp.

Address: 1333 South Claudina Street

Anaheim, CA 92805

**Telephone:** 714-533-2221 X331

Fax: 714-635-7539

**Contact:** Christina Cayuela

QS/RA Manager

Date Prepared: March 17, 2011

AUG 2 5 2011

#### **Proposed Device Name:**

a. TRADE NAME: Sonicator® Plus 920, Model ME 920

b. CLASSIFICATION NAME: Ultrasound and muscle stimulator (Sec. 890.5860, Product Code IMG)

c. COMMON NAME: Combination Ultrasound and Muscle Stimulator

#### **Predicate Device:**

TRADE NAME: Sonicator® Plus 940, Model ME 940 510(k) Number: K071137

#### **Description of Proposed Device:**

The Sonicator® Plus 920, Model ME 920 is a two-channel combination unit for therapeutic ultrasound and muscle stimulation. The microprocessor controlled Sonicator® Plus 920 provides interferential (4-pole), pre-modulated(2-pole interferential), medium frequency (Russian), EMS, High Volt, TENS, microcurrent and direct current (DC) waveforms with enhanced reliability and ease of use. In addition the Sonicator® Plus 920 offers 1 and 3 MHz ultrasound using dual frequency 5.5 cm² applicator. An optional 0.9 cm² applicator at 1 and 3 MHz is also available.

The two-channel Sonicator® Plus 920 allows the clinician to utilize up to two different waveforms using two channels simultaneously. They can choose between several different amplitude modulation options such as the surge, reciprocation and vector sweep The interferential and pre-modulated modes offer frequency modulation as well as a static frequency option.

The Sonicator Plus provides both a membrane panel and a touchsensitive screen to allow you to quickly set up treatments. 90 preset treatment setups allow quick set up of a treatment that is already in the memory, plus any of these programs may be customized with the clinician's own treatment protocols.

The Sonicator<sup>®</sup> Plus 920 can provide electrical stimulation only, ultrasound only and combination therapy with the pre-modulated, TENS, High Voltage, microcurrent and DC waveforms.

# INDICATIONS FOR USE STATEMENT SONICATOR® PLUS 920, ME 920

510(k) Number: k111482

Device Name: Sonicator® Plus 920, Model ME 920

Proposed Device Indications for Use (same as those for predicate device):

### Therapeutic Ultrasound

Application of therapeutic deep heat for the treatment of selected sub-chronic and chronic medical conditions such as:

- 1. Relief of pain, muscle spasms and joint contractures:
- 2. Relief of pain, muscle spasms and joint contractures that may be associated with:
  - Adhesive capsulitis
  - Bursitis with slight calcification
  - Myositis
  - Soft tissue injuries
  - Shortened tendons due to past injuries and scar tissues
- 3. Relief of pain, muscle spasms and joint contractures resulting from:
  - Capsular tightness
  - Capsular tightening

### 4-Pole Interferential, 2-Pole Interferential, TENS and Microcurrent waveforms

- 1. Symptomatic relief of chronic intractable pain
- 2. Post-traumatic pain
- 3. Post-surgical pain

### EMS, TENS, Hi Volt and Russian waveforms

- 1. Relaxation of muscle spasms
- 2. Increase local blood circulation
- 3. Prevention or retardation of disuse atrophy
- 4. Muscle re-education
- 5. Maintaining or increasing range of motion
- 6. Immediate post surgical stimulation of calf muscles to prevent venous thrombosis

### DC (Direct Current)

1. Relaxation of muscle spasms

### K111482 40/15

# Comparison of Technological Characteristics Between Proposed and Predicate Devices:

Section 2				
1.	510 K#	K071137	K	
2.	Device Name	Sonicator® Plus 940	Sonicator® Plus 920	
3.	Manufacturer	Mettler Electronics	Mettler Electronics	
4.	Power Source	AC line	AC line	
	Line Current	Reinforced insulation	Reinforced insulation	
	Isolation			
	Max Leakage Curren	t		
	(μΑ)			
	Chassis	>50 under SFC	> 50 under SFC	
	Electrodes	>50 under SFC	>100 under SFC	
5.	Number Of Output	8	8	
	Modes			
6.	Channel(s)	4	2	
	Synchronous	1 & 2 or 3 & 4	1 & 2	
	Reciprocal	1 & 2 or 3 & 4	1&2	
_	Other	Yes	Yes	
7.	Constant Current	Yes	Yes	
	Constant Voltage	No	No	
8.	Software / Firmware / Microprocessor Control	/ Yes	Yes	
9.	Automatic Overload Trip	Yes	Yes	
	Automatic Over Current Trip	Yes	Yes	
10.	Automatic No Load Trip	Yes	Yes	
11.	<b>Automatic Shut Off</b>	Yes	Yes	
12.	Patient Override	No	No	
	<b>Control Method</b>	On/Off, Hold or Stop	On/Off, Hold or Stop	
13.	Indicator Display			
	On / Off Status	Yes	Yes	
	Voltage/Current	Yes	Yes	
	Level			
	Low Battery Indicator	N/A	N/A	
14.	Timer Display:	0 – 60 minutes	0 – 60 minutes	
15.	Standards			

Yes

ISO 14971 : 2000

Yes

K111482 5015

	UL 2601-1	Yes ·	Yes
	<b>CSA C22.2 NO</b>	Yes	Yes
	601.1-M90		
	IEC/EN 60601-1	Yes	Yes
	IEC/EN 60601-1-2	Yes	Yes
	IEC/EN 60601-2-10	Yes	Yes
	MDD 93/42/EEC,	Yes	Yes
	Annex II		
16.	Compliance with	Yes	Yes
	21 CFR 898		•
17.	Weight (lbs.)	11	11
18.	Dimensions (in.) HxW	4.9 x 13.6 x x 10.5	4.9 x 13.6 x x 10.5
19.	Housing Materials & Construction	Metal Casing	Metal Casing

### Neuromuscular Stimulation, Section 3

510 K # Device Name Manufacturer	K071137 Sonicator® Plus 940 Mettler Electronics	K Sonicator® Plus 920 Mettler Electronics
Waveform		
EMS	Biphasic	Biphasic
TENS	Biphasic	Biphasic
Hi Volt	Pulsed Monophasic and Biphasic	Pulsed Monophasic and Biphasic
Russian	Biphasic	Biphasic
Shape		
EMS	Sinusidal	Sinusidal
TENS	Square	Square
Hi Volt	Twin spike	Twin spike
Russian	Gated Sinusoidal	Gated Sinusoidal
Max Output Voltage (V) ±20%		
500 Ω		
EMS	49	50

TENS	46	50
Hi Volt	146	155
Russian	50	50
2 kΩ		
EMS	115	115
TENS	100	110
Hi Volt	155	170
Russian	110	110
10 kΩ		
EMS	120	120
TENS	105	115
Hi Volt	190	220
Russian	120	120
Max Output Currer (mA) ±20%	nt	
500 Ω		
EMS	98	100
TENS	90	100
Hi Volt	292	310
Russian	100	100
2 kΩ		
EMS	57	58
TENS	50	55
Hi Volt	78	85
Russian	55	55
10 kΩ		
EMS	12	12
TENS	10.5	12
Hi Volt	19	22
Russian	12	12
Pulse Width Range	F00 0F0 000 :	
EMS	500, 250, 200 µs	500, 250, 200 µs
TENS	100 - 600 µs	100 - 600 μs
Hi Volt	10 - 80 µs	10 - 80 µs
Russian	400 µs	400 µs
Frequency (Hz)	O LINE A CHE CONT.	0133 4144
EMS	2 kHz, 4 kHz, 5 kHz	2 kHz, 4 kHz, 5 kHz

### K111482 7 of 15

0.5 - 250 Hz	0.5 - 250 Hz
0.5 - 200 Hz	0.5 - 200 Hz
2.5 kHz	2.5 kHz
le, 1 - 250 Hz	1 - 250 Hz
?	
Yes	Yes
250, 125, 100 μs	250, 125, 100 µs
50 - 300 μs	50 - 300 µs
10 - 80 µs	10 - 80 µs
200 μs	200 μs
Zero	Zero
Symmetric	Symmetric
Balanced	Balanced
ge	
12.7	15.9
60	60
48	48
12.7	15.9
2.96*	2.46
1.91*	1.97
1.87*	2.32
3.50*	. 3.45
ity .	
0.089	0.062
0.037	0.039
	0.5 - 200 Hz 2.5 kHz  le, 1 - 250 Hz  Yes Yes Yes Yes Yes 250, 125, 100 µs 50 - 300 µs 10 - 80 µs 200 µs Zero Symmetric Balanced rge  12.7 60 48 12.7  2.96* 1.91* 1.87* 3.50* ity  0.089

## K111482 80f15

Hi Volt	0.035	0.054
Russian	0.121	0.121
<b>Burst Mode</b>		
a. Pulses per bur	st	
EMS	N/A	N/A
TENS	7	7
Hi Volt	7	7
Russian	N/A	N/A
b. Bursts per sec	ond	
EMS	N/A	N/A
TENS	0.5, 0.7, 1, 2, 3, 4, 5, 6, 7	0.5, 0.7, 1, 2, 3, 4, 5, 6, 7
Hi Volt	0.5, 0.7, 1, 2, 3, 4, 5, 6, 7	0.5, 0.7, 1, 2, 3, 4, 5, 6, 7
Russian	0 – 100	0 – 100
c. Burst duration	(ms)	
EMS	N/A	N/A
TENS	70	70
Hi Volt	120	120
Russian	2, 4, 620	2, 4, 620
d. Duty Cycle (b x	c)	
EMS	N/A	N/A
TENS	3.6 - 77.8 %	3.6 - 77.8 %
Hi Volt	6.3 % to 85.7 %	6.3 % to 85.7 %
Russian	10, 20, 30,100%	10, 20, 30,100%
On Time (ms)		
EMS	1 - 99	1 - 99
TENS	1 - 30	1 - 30
Hi Volt	1 - 30	1 - 30
Russian	1 - 30	1 - 30
Off Time (s)	•	
EMS	1 - 99	1 - 99
TENS	1 - 99	1 - 99
Hi Volt	1 - 99	1 - 99
Russian	1 - 99	1 - 99

# Pain Management, Section 3

510 K # Device Name Manufacturer	K071137 Sonicator® Plus 940 Mettler Electronics	K Sonicator® Plus 920 Mettler Electronics
Waveform		
Interferential, 4-pole	Biphasic	Biphasic
Interferential, 2-pole, Premodulated	Biphasic	Biphasic
TENS	Biphasic	Biphasic
Microcurrent	Biphasic and pulsed monophasic	Biphasic and pulsed monophasic
Shape		•
Interferential, 4-pole	Sinusidal	Sinusidal
Interferential, 2-pole, Premodulated	Sinusidal	Sinusidal
TENS	Square	Square
Microcurrent	Square	Square
Max Output Voltage (V) ±20%	·	
500 Ω		
Interferential, 4-pole	48	50
Interferential, 2-pole, Premodulated	49	50
TENS	46	50
Microcurrent	0.38	0.37
2 kΩ		
Interferential, 4-pole	110	115
Interferential, 2-pole, Premodulated	115	110
TENS	100	115
Microcurrent	1.55	1.5
10 kΩ		
Interferential, 4-pole	120	120
Interferential, 2-pole, Premodulated	120	115
TENS	105	125
Microcurrent	7.5	7.4
Max Output Current (mA) ±20%	,	
500 Ω		

### K111482 10 of 15

Interferential, 4-pole	96	100
Interferential, 2-pole		100
Premodulated	•	
TENS	90	100
Microcurrent	0.760	0.74
2 kΩ		
Interferential, 4-pole	55	58
Interferential, 2-pole, Premodulated	57	55
TENS	50	58
Microcurrent	0.780	0.75
10 kΩ		
Interferential, 4-pole	12	12
Interferential, 2-pole,	12	12
Premodulated		
TENS	10.5	13
Microcurrent	0.750	0.74
Pulse Width Range	F00 000 000	
Interferential, 4-pole	500, 250, 200 μs	500, 250, 200 μs
Interferential, 2-pole, Premodulated	500, 250, 200 μs	500, 250, 200 µs
TENS	100 - 600 μs	100 - 600 μs
Microcurrent	1.25 ms - 1.67 s	1.25 ms - 1.67 s
Frequency (Hz)		
Interferential, 4-pole	2 kHz, 4 kHz, 5 kHz	2 kHz, 4 kHz, 5 kHz
Interferential, 2-pole, <i>Premodulated</i>	2 kHz, 4 kHz, 5 kHz	2 kHz, 4 kHz, 5 kHz
TENS	0.5 - 250 Hz	0.5 - 250 Hz
Microcurrent	0.3 - 400 Hz	0.3 - 400 Hz
Beat Frequency (Hz)		
Interferential, 4-pole	1 - 250 Hz	1 - 250 Hz
Interferential, 2-pole, Premodulated	1 - 250 Hz	1 - 250 Hz
Multiphasic Waveforms		
Symmetrical Phases?		
Interferential, 4-pole	Yes	Yes
interferential, 2-pole,	Yes	Yes
· ·		

# K111482 110f15

Premodulated		
TENS	Yes	Yes
Microcurrent	Yes	Yes
Phase Duration		
Interferential, 4-pole	250, 125, 100 μs	250, 125, 100 µs
Interferential, 2-pole, Premodulated	, 250, 125, 100 μs	250, 125, 100 μs
TENS	50 - 300 us	50 - 300 µs
Microcurrent	1.25 ms - 1.67 s	1.25 ms - 1.67 s
Net Charge	Zero	Zero
Symmetry	Symmetric	Symmetric
Method	Balanced	Balanced
Maximum Phase Charg (uC)	<b>e</b>	
500 Ω		
Interferential, 4-pole	12.7	15.9
Interferential, 2-pole,	12.7	15.9
Premodulated TENS		
TENS	60	60
Microcurrent	75	75
Maximum Current Density		
$(mA/cm^2, 500 \Omega)$		
Interferential, 4-pole	3.50*	3.45
Interferential, 2-pole, Premodulated	2.96*	2.46
TENS	1.91*	1.97
Microcurrent	0.026*	0.026
Maximum Power Density	1	
(W/cm², 500 Ω)		
Interferential, 4-pole	0.121	0.121
Interferential, 2-pole, Premodulated	0.089	0.062
TENS	0.037	0.039
Microcurrent	0.000007	0.000007
Burst Mode		
a. Pulses per burst		
Interferential, 4-pole	N/A	N/A
Interferential, 2-pole,	N/A	N/A

Premodulated		
TENS	7	7
Microcurrent	N/A	N/A
b. Bursts per second		
Interferential, 4-pole	N/A	N/A
Interferential, 2-pole, Premodulated	N/A	N/A
TENS	0.5, 0.7, 1, 2, 3, 4, 5, 6, 7	0.5, 0.7, 1, 2, 3, 4, 5, 6, 7
Microcurrent	N/A	N/A
c. Burst duration (ms)		
Interferential, 4-pole	N/A	N/A
Interferential, 2-pole, Premodulated	N/A	N/A
TENS	70	70
Microcurrent	N/A	N/A
d. Duty Cycle (b x c)		
Interferential, 4-pole	N/A	N/A
Interferential, 2-pole, <i>Premodulated</i>	N/A	N/A
TENS	3.6 - 77.8 %	3.6 - 77.8 %
Microcurrent	N/A	N/A
On Time (s)	•	
Interferential, 4-pole	N/A	N/A
Interferential, 2-pole, Premodulated	N/A	N/A
TENS	1 - 30	1 - 30
Microcurrent	N/A	N/A
Off Time (s)		
Interferential, 4-pole	N/A	N/A
Interferential, 2-pole, Premodulated	N/A	N/A
TENS	1 - 99	1 - 99
Microcurrent	N/A	N/A

# Muscle Spasm, Section 3

510 K # Device Name Manufacturer	K071137 Sonicator® Plus 940 Mettler Electronics	K Sonicator® Plus 920 Mettler Electronics
Waveform		
Continuous DC	DC	DC
Shape		
Continuous DC	DC	DC
Max Output Voltage (V) ±20%		
500 Ω		
Continuous DC	10.2	10.5
2 kΩ		
Continuous DC	28	26
10 kΩ		
Continuous DC	34	31
Max Output Current (mA) ±20%		
500 Ω		
Continuous DC	20	21
2 kΩ		
Continuous DC	14	13
10 kΩ		
Continuous DC	3.4**	3.1
Maximum Current Density		
(mA/cm², 500 Ω)		
Continuous DC	0.99	0.99
<b>Maximum Power Density</b>		
(W/cm², 500 Ω)		••
Continuous DC	0.0079	0.0098
On Time (s)		
Continuous DC	Controlled by probe	Controlled by probe
Off Time (s)		
Continuous DC	Controlled by probe	Controlled by probe

2 W/cm² for continuous mode 3 W/cm² for pulsed mode

12 W for ME 9201

1.8 W for ME 9202

### Therapeutic Ultrasound

**Maximum output** 

**Maximum intensity** 

power

#4A ==		
510 K#	K071137	K
Device Name	Sonicator® Plus 940	Sonicator® Plus 920
Manufacturer	Mettler Electronics	Mettler Electronics
Power Source	AC Line	AC Line
Standards		
ISO 14971 : 2000	Yes	Yes
UL 2601-1	Yes	Yes
CSA C22.2 NO 601.1	. Yes	Yes
M90		
IEC/EN 60601-1	Yes	Yes
IEC/EN 60601-1-2	Yes	Yes
IEC/EN 60601-2-5	Yes	Yes
FDA, 21 CFR 1050.10	Yes	Yes
MDD 93/42/EEC,	Yes	Yes
Annex ii		
Timer Accuracy:	±3%	±3%
Maximum Treatment Time:	30 minutes	30 minutes
Ultrasonic Generator	Specifications	
Frequency	1 MHz and 3 MHz, ± 5 %	1 MHz and 3 MHz, ± 5 %
Modes	Continuous and Pulsed	Continuous and Pulsed
<b>Pulse Repetition Rate</b>	100 Hz ± 10 %	100 Hz ± 10 %
Pulse Duration	0.5, 1.0, 2.0. 3.0, 4.0 and 5 ms (±10 %)	0.5, 1.0, 2.0. 3.0, 4.0 and 5 ms (±10 %)
iauo	2:1 ± 20 % at 50 % Duty Cycle 2.5 :1 ± 20 % at 40 % Duty Cycle 3.3:1 ± 20 % at 30 % Duty Cycle 5:1 ± 20 % at 20 % Duty Cycle 10:1 ± 20 % at 10 % Duty Cycle 20:1 ± 20 % at 5 % Duty Cycle	2:1 ± 20 % at 50.% Duty Cycle 2.5 :1 ± 20 % at 40 % Duty Cycle 3.3:1 ± 20 % at 30 % Duty Cycle 5:1 ± 20 % at 20 % Duty Cycle 10:1 ± 20 % at 10 % Duty Cycle 20:1 ± 20 % at 5 % Duty Cycle

12 W for ME 9401

1.8 W for ME 9402

2 W/cm² for continuous mode

3 W/cm² for pulsed mode

Indication accuracy ± 20 %

± 20 %

<u>Ultrasonic Applicator Specifications</u>
---

Piezoelectric discs

Ultrasound transducer attached to a metal surface and patient contact

through the metal

Ultrasound transducer attached to a metal surface and patient contact

through the metal

**Applicator Part** 

Number

Frequency

**Effective Radiating** 

Area

Maximum Beam

Non-

**Uniformity Ratio** 

ME 9401

1 MHz and 3 MHz ±5%

5.5 cm<sup>2</sup> (1 MHz) / 6.0 cm<sup>2</sup> (3 MHz)

4.55: 1 maximum

ME 9201

1 MHz and 3 MHz ±5%

5.5 cm<sup>2</sup> (1 MHz) / 6.0 cm<sup>2</sup> (3 MHz)

4.6:1 (1 MHz) / 4.2:1 (3 MHz)

maximum

**Applicator Part** 

**Effective Radiating** 

Number

Area

Non-

Frequency

1 MHz and 3 MHz ±5%

0.9 cm<sup>2</sup> (1MHz) / 0.9 cm<sup>2</sup> (3 MHz)

4.68: 1 maximum

ME 9402

ME 9202

1 MHz and 3 MHz ±5%

0.9 cm<sup>2</sup> (1MHz) / 0.8 cm<sup>2</sup> (3 MHz)

4.7:1 maximum

**Uniformity Ratio** 

Maximum Beam

**Other Applicators** Frequency

None N/A

None N/A

Effective Radiating

Area

N/A

N/A

Maximum Beam

Non-

, į

**Uniformity Ratio** 

N/A

N/A

<sup>\*</sup> Values shown are current correct values for ME940 device and reported in mA/cm<sup>2</sup> to match the same mA/cm<sup>2</sup> nomenclature reported for ME920 device (values appearing in original K071137 submission were

<sup>\*\*</sup> Value shown is correct value for ME940 device (value appearing in original K071137 submission was erroneously reported as 17 mA, much higher than the actual correct lower value of 3.4 mA shown above)

#### **DEPARTMENT OF HEALTH & HUMAN SERVICES**



Food and Drug Administration 10903 New Hampshire Avenue Document Control Room –WO66-G609 Silver Spring, MD 20993-0002

Mettler Electronics Corporation % Ms. Christina Cayuela QS/RA Manager 1333 South Claudina Street Anaheim, CA 92805

AUG 2 5 2011

Re: K111482

Trade/Device Name: Sonicator® Plus 920, Model ME 920

Regulation Number: 21 CFR 890.5860

Regulation Name: Ultrasound and muscle stimulator

Regulatory Class: II

Product Code: IMG, GZJ, GZI and IPF

Dated: July 20, 2011 Received: July 26, 2011

#### Dear Ms. Cayuela:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration. Please note: CDRH does not evaluate information related to contract liability warranties. We remind you, however, that device labeling must be truthful and not misleading.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21)

#### Page 2 - Ms. Christina Cayuela

CFR Part 807); labeling (21 CFR Part 801); medical device reporting (reporting of medical device-related adverse events) (21 CFR 803); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please go to <a href="http://www.fda.gov/AboutFDA/CentersOffices/CDRH/CDRHOffices/ucm115809.htm">http://www.fda.gov/AboutFDA/CentersOffices/CDRH/CDRHOffices/ucm115809.htm</a> for the Center for Devices and Radiological Health's (CDRH's) Office of Compliance. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to

http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm for the CDRH's Office of Surveillance and Biometrics/Division of Postmarket Surveillance.

You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm.

Sincerely yours,

A Mark N. Melkerson

Director

Division of Surgical, Orthopedic and Restorative Devices Office of Device Evaluation Center for Devices and Radiological Health

Enclosure

		Page1011
510(k) Number (if known):	k111482	_
Device Name:	Sonicator® Plus 920, ME 920	<u>0</u>
Indications for Use:		
such as;  1. Relief of pain, muscle spa 2. Relief of pain, muscle spa • Adhesive capsulitis • Bursitis with slight ca • Myositis • Soft tissue injuries • Shortened tendons due	sms and joint contractures: sms and joint contractures that may be	
Capsular tightening	nterferential, TENS and Microcurrer	(Division Sign-Off)
EMS, TENS, Hi Volt and Rus  1.Relaxation of muscle spasms  2. Increase local blood circul  3. Prevention or retardation of  4. Muscle re-education  5. Maintaining or increasing  6. Immediate post surgical st	lation of disuse atrophy	Division of Surgical, Orthopedic, and Restorative Devices  510(k) Number K11482
DC (Direct Current)  Relaxation of muscle spass	·	·
	BELOW THIS LINE — CONT	INUE ON ANOTHER PAGE IF NEEDED)  Evaluation (ODE)
Prescription Use X (Per 21 CFR 801.109)	OR	Over-The-Counter Use